

ABSTRACT OF THE DISCLOSURE

A system for continuous printing is disclosed. The system includes an unwind storing a roll of print media; a cutter which receives the print media and which cuts the print media into sheets of variable length; a sheet printer which receives the sheets of print media from said cutter, prints a design on each of the sheets and outputs printed-on sheets; an edge sensor which detects a leading edge of each of the printed-on sheets when output from said sheet printer; a rewind which receives the printed-on sheets output from said sheet printer; and a controller which receives an output signal from said edge sensor indicating the detection of the leading edge and synchronizes said rewind and the received printed-on sheets to cause a trailing edge and the leading edge of each successive printed-on sheet received by said rewind to be butted one to the other on the rewind.